

# PEEYUSH AGARWAL

Junior Undergraduate  
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## Academic Qualifications

Year	Degree	Institute	CPI
2016*	B.Tech.	Indian Institute of Technology Kanpur	9.3/10
2012	AISSE (CBSE XII)	Saint Xavier's Sr. Sec. School, Jaipur	91.0%
2010	AISSE (CBSE X)	Saint Xavier's Sr. Sec. School, Jaipur	10/10

\*Expected Year of Graduation

## Scholastic Achievements

- Secured **All India Rank 171** among more than **500,000 students** in **IIT-JEE 2012**
- Secured **All India Rank 746** among more than **1,100,000 students** in **AIEEE 2012**
- Awarded **Certificate of Merit** (Top 1%) by CBSE for **outstanding performance** in **All India Secondary School Examination**
- Awarded **Kishore Vaigyanik Protsahan Yojana fellowship** by Government of India for exceptional aptitude and caliber
- Received **Academic Excellence Award** for **outstanding performance** in academics at IIT Kanpur
- Secured **1st position** in 5th Rajasthan State Level UCMAS Abacus and Mental Arithmetic Competition
- Secured **8th position** in 7th All India UCMAS Abacus and Mental Arithmetic Competition

## Work Experience

**Software Developer** **Google Summer of Code** **May 2014 – Aug 2014**

Designed and developed Data Analytics Log Manager, a platform for detailed user level data analytics. It provides

- An API for receiving log data consisting of arbitrary key value pairs
- Tools to filter, analyze and visualize this data
- Capability to create a parent-child relationship and add synthetic/computed data
- Intuitive interface, thus enabling use by field experts (who may not have prior programming experience)
- Authentication and authorization to help protect the data

**Co-Founder and Technical Lead** **Manaple Technologies** **Nov 2013 – Mar 2014**

Built a customer engagement platform for retailers which consists of

- A web app (optimized for tablets) to collect customer feedback and contact details
- Functionality to send SMS and emails to customers for targeted campaigns
- Different access levels from store staff to store owner and analytics of data collected from customers

## Projects

**progCloud** **Computing Laboratory** **Aug 2014 – Nov 2014**

Designed and implemented a cloud based data storage service consisting of a web interface and a python client

- Web interface allows users to create/upload files and folders and share them with other registered users
- Python client provides two way synchronization where latest changes are both pulled from and pushed to the cloud

**Extended NachOS** **Operating Systems** **Aug 2014 – Nov 2014**

- Implemented system calls pertaining to Fork, Exec, Join, Yield, Sleep and Exit
- Implemented UNIX, First in First Out, Round Robin, Shortest Job First and Non-Preemptive job scheduling algorithms
- Implemented Random, First in First Out, Least Recently Used (LRU) and LRU Clock page replacement algorithms

**Content Aware Mail Classifier** **Programming Club, IIT Kanpur** **May 2013 – Jun 2013**

Created a mail classifier based on bag of words model using publicly available Enron mail database

- Studied and implemented various supervised learning algorithms like Multiclass-SVM, Naive Bayes and Random forests
- Used basic Natural Language Processing techniques like POS-tagging and stemming
- Built the main testing and classification module using python, python-nltk, scikit-learn and weka
- Also built a prototype for Gmail using Google App script

**Moody Trudes!** **Yahoo!'s R&D Team** **Aug 2013**

Used Machine Learning to analyze the mood of a person based on his/her social media updates

**Online Medical Store** **Open Source Project** **Dec 2013**

Built a store consisting of Products Maintenance System, Catalog, Cart and Check Out System using Ruby on Rails

Built an educational web app to help children master a language faster. The app displays a word randomly and analyzes user's pronunciation of the word using Google's Speech2Text API; Also tells the correct pronunciation for the word

## Technical Skills

Programming Languages	C++, Ruby, C, Python, Shell Scripting, Perl, MySQL
Web Development	HTML, CSS, JavaScript, Ruby on Rails, jQuery, KnockoutJS, Bootstrap, RSpec
Tools	Latex, GIT, Octave, Weka
Cloud Platforms	AWS, Heroku

## Relevant Courses

Fundamentals of Computing	Data Structures and Algorithms	Computer Organization	Discrete Mathematics
Computing Laboratory	Introduction to Logic	Abstract Algebra	Machine Learning
Operating Systems	Advanced Algorithms	Computer Networks	Theory of Computation

## Positions of Responsibility

### Executive, Public Relations, Techkriti'14

- Led a team of more than 20 volunteers to organize talks, shows and exhibitions in the biggest festival at IIT Kanpur
- Organized Pre-Fest talks by Dr. Hans Rosling and Wing Commander Rakesh Sharma for the first time in campus
- Hosted 11 guest lectures, 13 exhibitions and 6 technical shows from 8 different countries

### Coordinator, Computing Events, Techkriti'14

- Designed and tested problem statements for programming events with prize money worth \$4000
- Invited experts for evaluating competitions and ensured smooth execution of competitions and workshops

### Mentor, Association of Computing Activities, IIT Kanpur

- Mentored Computer Science students and introduced them to Linux and Web Development
- Organized sessions to teach computer science basics and assisted them in building an online store